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Terms	Documents
zinc adj finger and L36	37

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L37

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L37	zinc adj finger and L36	37	L37
L36	l1 and l34	41	L36
L35	plant and l34	117	L35
L34	l20 or l21 or l22 or l23 or l24 or l25 or l28 or l29 or l30 or l31	190	L34
L33	l1 and L32	3	L33
L32	l2 or l3 or l6 or l7 or l10	43	L32
L31	domain same trab1	53	L31
L30	domain same myc-rp/gp	56	L30
L29	domain same cprf4	56	L29
L28	domain same cprf1	58	L28
L27	domain same arf-8	0	L27
L26	domain same arf-7	0	L26
L25	domain same arf-6	1	L25
L24	domain same arf-5	49	L24
L23	domain same half-1	56	L23
L22	domain same osgai	62	L22

<u>L21</u>	domain same src1	108	<u>L21</u>
<u>L20</u>	domain same pcaf	106	<u>L20</u>
<u>L19</u>	domain same trab1.clm.	0	<u>L19</u>
<u>L18</u>	domain same myc-rp/gp.clm.	0	<u>L18</u>
<u>L17</u>	domain same cprf4.clm.	0	<u>L17</u>
<u>L16</u>	domain same cprf1.clm.	0	<u>L16</u>
<u>L15</u>	domain same arf-8.clm.	0	<u>L15</u>
<u>L14</u>	domain same arf-5.clm.	0	<u>L14</u>
<u>L13</u>	domain same arf-7.clm.	0	<u>L13</u>
<u>L12</u>	domain same arf-6.clm.	0	<u>L12</u>
<u>L11</u>	domain same arf-5.clm.	0	<u>L11</u>
<u>L10</u>	domain same ap1.clm.	8	<u>L10</u>
<u>L9</u>	domain same half-1.clm.	0	<u>L9</u>
<u>L8</u>	domain same osgai.clm.	0	<u>L8</u>
<u>L7</u>	domain same erf-2.clm.	7	<u>L7</u>
<u>L6</u>	domain same pvalf.clm.	1	<u>L6</u>
<u>L5</u>	domain same src1.clm.	0	<u>L5</u>
<u>L4</u>	domain same pcaf.clm.	0	<u>L4</u>
<u>L3</u>	domain same cbp.clm.	24	<u>L3</u>
<u>L2</u>	domain same p300.clm.	8	<u>L2</u>
<u>L1</u>	plant.clm. or plants.clm.	68021	<u>L1</u>

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NEWS 6 JAN 22 CA/CAPplus updated with revised CAS roles
NEWS 7 JAN 22 CA/CAPplus enhanced with patent applications from India
NEWS 8 JAN 29 PHAR reloaded with new search and display fields
NEWS 9 JAN 29 CAS Registry Number crossover limit increased to 300,000 in
multiple databases
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to 300,000 in multiple databases
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=> file medline, agricola, caba, caplus, biosis, biotechno

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FILE 'MEDLINE' ENTERED AT 14:48:06 ON 26 APR 2007

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FILE 'CABA' ENTERED AT 14:48:06 ON 26 APR 2007

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FILE 'BIOTECHNO' ENTERED AT 14:48:06 ON 26 APR 2007

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=> s p300(s)domain

L1 1524 P300(S) DOMAIN

=> s cbp(s)domain

L2 1726 CBP(S) DOMAIN

=> s pcaf(s)domain

L3 145 PCAF(S) DOMAIN

=> s srcl(s)domain

L4 91 SRC1(S) DOMAIN

=> s pvalf(s)domain

L5 19 PVALF(S) DOMAIN

=> s erf-2(s)domain

L6 1 ERF-2(S) DOMAIN

=> s (erf-2 or erf2 or erf(w)2)(s)domain

L7 36 (ERF-2 OR ERF2 OR ERF(W) 2)(S) DOMAIN

=> s osgai(s)domain

L8 3 OSGAI(S) DOMAIN

=> s (half-1 or half1 or half(w)1)(s)domain

L9 13 (HALF-1 OR HALF1 OR HALF(W) 1)(S) DOMAIN

=> s apl(s)domain

L10 370 AP1(S) DOMAIN

=> s (arf-5 or arf5 or arf(w)5)(s)domain

L11 28 (ARF-5 OR ARF5 OR ARF(W) 5)(S) DOMAIN

=> s (arf-6 or arf6 or arf(w)6)(s)domain

L12 157 (ARF-6 OR ARF6 OR ARF(W) 6)(S) DOMAIN

=> s (arf-7 or arf7 or arf(w)7)(s)domain

L13 9 (ARF-7 OR ARF7 OR ARF(W) 7)(S) DOMAIN

=> s (arf-8 or arf8 or arf(w)8)(s)domain

L14 3 (ARF-8 OR ARF8 OR ARF(W) 8)(S) DOMAIN

=> s cprfl(s)domain

L15 16 CPRF1(S) DOMAIN

=> s cprf4(s)domain

L16 3 CPRF4(S) DOMAIN

=> s (myc-rp/gp or myc(w)rp/gp) (s)domain

'GP' IS NOT A VALID FIELD CODE

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'GP' IS NOT A VALID FIELD CODE

L17 0 (MYC-RP/GP OR MYC(W) RP/GP) (S) DOMAIN

=> s myc(w)rp(w)gp(s)domain

L18 6 MYC(W) RP(W) GP(S) DOMAIN

=> s trabl(s)domain

L19 13 TRAB1(S) DOMAIN

=> d 16 ti

L6 ANSWER 1 OF 1 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
TI Identification of four CCCH zinc finger proteins in Xenopus, including a novel vertebrate protein with four zinc fingers and severely restricted expression

=> d 16 kwic

L6 ANSWER 1 OF 1 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
AB. . . of this class. Based on 49% overall amino acid identity and 84% amino acid identity within the double zinc finger domain, one of the Xenopus proteins (XC3H-1) appears to be the homologue of TTP. By similar analyses, XC3H-2 and XC3H-3 are homologues of ERF-1 (cMGL, TIS11B) and ERF-2 (TIS11D). A fourth protein, XC3H-4, is a previously unidentified member of the CCCH class of vertebrate zinc finger proteins; it. . .

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DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L5

L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)

=> d 120 1-5 ti

L20 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1

TI Dual DNA binding property of ABA insensitive 3 like factors targeted to promoters responsive to ABA and auxin.

L20 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 2

TI Interaction of PvALF and VP1 B3 domains with the beta -phaseolin promoter.

L20 ANSWER 3 OF 5 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI Soybean homolog of seed-specific transcription activator from Phaseolus vulgaris.

L20 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 3

TI The regulator of MAT2 (ROM2) protein binds to early maturation promoters and represses PvALF-activated transcription.

L20 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 4

TI PvAlf, an embryo-specific acidic transcriptional activator enhances gene

expression from phaseolin and phytohemagglutinin promoters.

=> d 15 kwic

L5 ANSWER 1 OF 19 MEDLINE on STN

AB . . . their binding to canonical AuxREs. Investigations were undertaken through in vitro gel mobility shift assays (GMSA) using the DNA binding domain B3 of PvAlf (Phaseolus vulgaris ABI3 like factor) and upstream regions of auxin responsive gene GH3 (-267 to -141) and ABA responsive gene Em (-316 to -146) harboring AuxRE and ABRE, respectively. We demonstrate that B3 domain of PvAlf could bind AuxRE only when B3 was associated with its flanking domain B2 (B2B3). Such strict requirement of B2 domain was not observed with ABRE, where B3 could bind with or without. . .

=> d 120 1-5 kwic

L20 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1

AB . . . their binding to canonical AuxREs. Investigations were undertaken through in vitro gel mobility shift assays (GMSA) using the DNA binding domain B3 of PvAlf (Phaseolus vulgaris ABI3 like factor) and upstream regions of auxin responsive gene GH3 (-267 to -141) and ABA responsive gene Em (-316 to -146) harboring AuxRE and ABRE, respectively. We demonstrate that B3 domain of PvAlf could bind AuxRE only when B3 was associated with its flanking domain B2 (B2B3). Such strict requirement of B2 domain was not observed with ABRE, where B3 could bind with or without. . .

L20 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 2

AB . . . during embryogenesis but in vegetative tissues it is completely silenced by a rotationally positioned nucleosome. Ectopic expression in leaves of PvALF, a seed-specific transcription factor belonging to the plant-exclusive B3 domain-containing VP1/ABI3 family, leads to chromatin remodeling of the phas promoter, permitting transcriptional activation by the growth regulator abscisic acid (ABA).. . of maize VP1. Here, both in vivo and in vitro approaches were used to show physical interaction of the B3 domain of VP1 or PvALF to RY elements in the native phas promoter. In electrophoretic mobility shift assays, small changes in B3 domain concentration differentiated between RY element-specific and sequence non-specific DNA binding. Increased affinity of the PvALF B3 domain to RY elements was observed in the presence of histones and other basic proteins, possibly reflecting the ability of this. . .

L20 ANSWER 3 OF 5 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

AB. . . activator in a transformed host cell. The invention also relates to targeting of the soybean homolog of the Phaseolus vulgaris PvAlf transcription activator to a novel promoter region by the addition of either a DNA-binding domain or a protein-protein interaction domain, thus leading to a higher level of gene expression.

L20 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 3

AB . . . by mutations that prevented binding of ROM2 to the DLEC2 seed enhancer region. Moreover, a hybrid protein composed of a PvALF activation domain and the DNA binding and dimerization domain of ROM2 activated gene expression, indicating that ROM2 recognizes the DLEC2 enhancer in vivo; consequently, ROM2 functions as a DNA. . .

L20 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 4

AB . . . 22-35 days after flowering) that precede the onsets of seed maturation and seed abscission, respectively. Protein fusions with the DNA-binding domain of the yeast transcriptional activator GAL4

demonstrated that the N-terminal 243 amino acids of PvAlf function as a strong transcriptional activation domain in yeast (*Saccharomyces cerevisiae*) and plant cells. This domain consists of a central cluster rich in serine, threonine and proline. . .

=> d 120 5 bib

L20 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 4
 AN 96045542 MEDLINE
 DN PubMed ID: 7550372
 TI PvAlf, an embryo-specific acidic transcriptional activator enhances gene expression from phaseolin and phytohemagglutinin promoters.
 AU Bobb A J; Eiben H G; Bustos M M
 CS Department of Biological Sciences, UMBC 21228-5398, USA.
 SO The Plant journal : for cell and molecular biology, (1995 Sep) Vol. 8, No. 3, pp. 331-43.
 Journal code: 9207397. ISSN: 0960-7412.
 CY ENGLAND: United Kingdom
 DT (COMPARATIVE STUDY)
 Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 (RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)
 LA English
 FS Priority Journals
 OS GENBANK-U28645
 EM 199511
 ED Entered STN: 27 Dec 1995
 Last Updated on STN: 18 Dec 2002
 Entered Medline: 13 Nov 1995

=> d his

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:48:06 ON 26 APR 2007

L1 1524 S P300(S)DOMAIN
 L2 1726 S CBP(S)DOMAIN
 L3 145 S PCAF(S)DOMAIN
 L4 91 S SRC1(S)DOMAIN
 L5 19 S PVALF(S)DOMAIN
 L6 1 S ERF-2(S)DOMAIN
 L7 36 S (ERF-2 OR ERF2 OR ERF(W)2) (S)DOMAIN
 L8 3 S OSGAI(S)DOMAIN
 L9 13 S (HALF-1 OR HALF1 OR HALF(W)1) (S)DOMAIN
 L10 370 S AP1(S)DOMAIN
 L11 28 S (ARF-5 OR ARF5 OR ARF(W)5) (S)DOMAIN
 L12 157 S (ARF-6 OR ARF6 OR ARF(W)6) (S)DOMAIN
 L13 9 S (ARF-7 OR ARF7 OR ARF(W)7) (S)DOMAIN
 L14 3 S (ARF-8 OR ARF8 OR ARF(W)8) (S)DOMAIN
 L15 16 S CPRF1(S)DOMAIN
 L16 3 S CPRF4(S)DOMAIN
 L17 0 S (MYC-RP/GP OR MYC(W)RP/GP) (S)DOMAIN
 L18 6 S MYC(W)RP(W)GP(S)DOMAIN
 L19 13 S TRAB1(S)DOMAIN
 L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)

=> duplicate remove 17

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
 PROCESSING COMPLETED FOR L7

L21 13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)

=> d 121 1-13 ti

- L21 ANSWER 1 OF 13 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2007) on STN DUPLICATE 1
TI Sl-ERF2, a Tomato Ethylene Response Factor Involved in Ethylene Response and Seed Germination.
- L21 ANSWER 2 OF 13 MEDLINE on STN DUPLICATE 2
TI Protein palmitoylation by a family of DHHC protein S-acyltransferases.
- L21 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Intracellular localization and tissue-specific distribution of human and yeast DHHC cysteine-rich domain-containing proteins
- L21 ANSWER 4 OF 13 MEDLINE on STN DUPLICATE 3
TI DHHC9 and GCP16 constitute a human protein fatty acyltransferase with specificity for H- and N-Ras.
- L21 ANSWER 5 OF 13 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI A proposed family of protein palmitoyltransferases.
- L21 ANSWER 6 OF 13 MEDLINE on STN DUPLICATE 4
TI On the mechanism of protein palmitoylation.
- L21 ANSWER 7 OF 13 MEDLINE on STN DUPLICATE 5
TI Palmitoylation and plasma membrane localization of Ras2p by a nonclassical trafficking pathway in *Saccharomyces cerevisiae*.
- L21 ANSWER 8 OF 13 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
TI Identification of a Ras palmitoyltransferase in *Saccharomyces cerevisiae*
- L21 ANSWER 9 OF 13 MEDLINE on STN DUPLICATE 6
TI Determinants in the sequence specific binding of two plant transcription factors, CBF1 and NtERF2, to the DRE and GCC motifs.
- L21 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Ethylene-responsive transcription factors in tobacco with distinct transactivation functions
- L21 ANSWER 11 OF 13 MEDLINE on STN DUPLICATE 7
TI Three ethylene-responsive transcription factors in tobacco with distinct transactivation functions.
- L21 ANSWER 12 OF 13 MEDLINE on STN DUPLICATE 8
TI Erf2, a novel gene product that affects the localization and palmitoylation of Ras2 in *Saccharomyces cerevisiae*.
- L21 ANSWER 13 OF 13 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
TI Identification of four CCCH zinc finger proteins in *Xenopus*, including a novel vertebrate protein with four zinc fingers and severely restricted expression

=> d 121 1-13 kwic

- L21 ANSWER 1 OF 13 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2007) on STN DUPLICATE 1
AB . . . found in the promoter region of ethylene-regulated genes. We report here on the structural and functional characterization of the tomato Sl-ERF2 gene that belongs to a distinct class of the large ERF gene family. Both spliced and unspliced versions of Sl-

ERF2 transcripts were amplified from RNA samples and the search in the public tomato expressed sequence tag (EST) database confirmed the. . . The unspliced transcript contains two open reading frames yielding two hypothetical proteins, a small highly truncated version lacking the APETALA2 domain and a bigger protein lacking the N-terminal MCGGAAIL/L consensus peptide specific to ERF members from subfamily IV. Nevertheless, functional Sl-ERF2 protein may only derive from spliced transcripts since, depending on the tissue, the level of the spliced transcript is much higher than that of the unspliced transcript. Sl-ERF2 is expressed in all plant tissues tested, though its transcript accumulates preferentially in germinating seeds and ripening fruit. Overexpression of the Sl-ERF2 gene in transgenic tomato lines results in premature seed germination and enhanced hook formation of dark-grown seedlings, which is indicative of increased ethylene sensitivity. The expression of the mannanase2 gene is upregulated in Sl-ERF2-overexpressing seeds, suggesting that Sl-ERF2 stimulates seed germination through the induction of the mannanase2 gene. It is noteworthy that the exaggerated hook phenotype is abolished when ethylene perception is blocked, strongly suggesting that Sl-ERF2 requires other ethylene-dependent components to impact the hook formation process.

- L21 ANSWER 2 OF 13 MEDLINE on STN DUPLICATE 2
 AB . . . in yeast. Two related S-palmitoyltransferases were discovered. Erf2 palmitoylates yeast Ras proteins, whereas Akrl modifies the yeast casein kinase, Yck2. Erf2 and Akrl share a common sequence referred to as a DHHC (aspartate-histidine-histidine-cysteine) domain. Numerous genes encoding DHHC domain proteins are found in all eukaryotic genome databases. Mounting evidence is consistent with this signature. . .
- L21 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
 IT Proteins
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (Erf2; intracellular localization and tissue-specific distribution of human and yeast DHHC cysteine-rich domain-containing proteins)
- L21 ANSWER 4 OF 13 MEDLINE on STN DUPLICATE 3
 AB . . . at the terminal cysteine; H-Ras and N-Ras are further modified by palmitoylation. Yeast Ras is palmitoylated by the DHHC cysteine-rich domain-containing protein Erf2 in a complex with Erf4. Here we report that H- and N-Ras are palmitoylated by a human protein palmitoyltransferase encoded. . .
- L21 ANSWER 5 OF 13 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
 AB . . . years. Erf2 and Akrl, two yeast proteins, carry out the palmitoylation for Ras proteins and yeast casein kinase 2, respectively. Erf2 and Akrl share a common motif referred to as a DHHC cysteine rich domain (CRD) or zinc finger DHHC (zf-DHHC) domain . DHHC-CRD proteins are polytopic membrane proteins found in all eukaryotes. In this study, we have analyzed DHHC-CRD proteins from unicellular. . .
- L21 ANSWER 6 OF 13 MEDLINE on STN DUPLICATE 4
 AB . . . proteins in Saccharomyces cerevisiae that promote palmitoylation: effector of Ras function (Erf2), ankyrin-repeat-containing protein (Akrl) and the SNARE protein Ykt6. Erf2 and Akrl are integral membrane proteins that contain a cysteine-rich domain and an Asp-His-His-Cys motif, both of which catalyze acylation at the carboxyl terminus of their target proteins. Recently, we discovered. . .
- L21 ANSWER 7 OF 13 MEDLINE on STN DUPLICATE 5
 AB . . . Cys-318 of Ras2p (S. Lobo, W. K. Greentree, M. E. Linder, and R. J. Deschenes, J. Biol. Chemical 277:41268-41273, 2002).

Erf2-dependent palmitoylation as well as localization of Ras2p requires a region of the hypervariable domain adjacent to the CaaX box. These results provide evidence for the existence of a palmitoylation-dependent, nonclassical endomembrane trafficking system for. . .

L21 ANSWER 8 OF 13 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
AB. . . presented that the Ras2 protein of *Saccharomyces cerevisiae* is palmitoylated by a Ras protein acyltransferase (Ras PAT) encoded by the ERF2 and ERF4 genes. Erf2p is a 41-kDa protein localized to the membrane of the endoplasmic reticulum and contains a conserved DHHC cysteine-rich domain (DHHC-CRD). Erf2p co-purifies with Erf4p (26 kDa) when it is expressed in yeast or in *Escherichia coli*. The Erf2p/Er4p complex is required for Ras PAT activity, and mutations within conserved residues (Cys.sup.1.sup.8.sup.9, His.sup.2.sup.0.sup.1, and Cys.sup.2.sup.0.sup.3) of the Erf2p DHHC-CRD domain abolish Ras PAT activity. Furthermore, a palmitoyl-Erf2p intermediate is detected suggesting that Erf2p is directly involved in palmitate transfer. ERF2 and ERF4 are the first genes identified that encode a palmitoyltransferase for a Ras GTPase.

L21 ANSWER 9 OF 13 MEDLINE on STN DUPLICATE 6
AB . . . ERF domain fragment of CBF1 (CBF1-F) binds specifically with a binding K(d) at the nanomolar level. In contrast, the ERF domain fragment of the tobacco ERF2 (NtERF2-F) does not interact with the DRE motif, but restrictedly recognizes the sequence containing a minimal 6 bp GCCGCC motif. . .

L21 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
AB . . . ERF2 and ERF4 enhanced the GCC box-mediated transcription of a reporter gene in tobacco protoplasts. When fused to the DNA-binding domain of yeast GAL4, a carboxy-terminal region of ERF2, as well as both amino-terminal and carboxy-terminal regions of ERF4, functioned as a transactivation domain in tobacco protoplasts. The amino-terminal regions of ERF2 and ERF4 functioned as transactivation domains in yeast. In contrast to ERF2. . .

L21 ANSWER 11 OF 13 MEDLINE on STN DUPLICATE 7
AB . . . ERF2 and ERF4 enhanced the GCC box-mediated transcription of a reporter gene in tobacco protoplasts. When fused to the DNA-binding domain of yeast GAL4, a carboxy-terminal region of ERF2, as well as both amino-terminal and carboxy-terminal regions of ERF4, functioned as a transactivation domain in tobacco protoplasts. The amino-terminal regions of ERF2 and ERF4 functioned as transactivation domains in yeast. In contrast to ERF2. . .

L21 ANSWER 12 OF 13 MEDLINE on STN DUPLICATE 8
AB . . . an uncharacterized open reading frame (YLR246w) that we have designated ERF2 and a previously described suppressor of hyperactive Ras, SHR5. ERF2 encodes a 41-kDa protein with four predicted transmembrane (TM) segments and a motif consisting of the amino acids Asp-His-His-Cys (DHHC) within a cysteine-rich domain (CRD), called DHHC-CRD. Mutations within the DHHC-CRD abolish Erf2 function. Subcellular fractionation and immunolocalization experiments reveal that Erf2 tagged with. . .

L21 ANSWER 13 OF 13 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
AB. . . of this class. Based on 49% overall amino acid identity and 84% amino acid identity within the double zinc finger domain, one of the *Xenopus* proteins (XC3H-1) appears to be the homologue of TTP. By similar analyses, XC3H-2 and XC3H-3 are homologues of ERF-1 (cMG1, TIS11B) and ERF-2 (TIS11D). A fourth protein, XC3H-4, is a previously unidentified member of the CCCH class of vertebrate zinc finger proteins; it. . .

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L9 13 S (HALF-1 OR HALF1 OR HALF(W)1)(S)DOMAIN
L10 370 S AP1(S)DOMAIN
L11 28 S (ARF-5 OR ARF5 OR ARF(W)5)(S)DOMAIN
L12 157 S (ARF-6 OR ARF6 OR ARF(W)6)(S)DOMAIN
L13 9 S (ARF-7 OR ARF7 OR ARF(W)7)(S)DOMAIN
L14 3 S (ARF-8 OR ARF8 OR ARF(W)8)(S)DOMAIN
L15 16 S CPRF1(S)DOMAIN
L16 3 S CPRF4(S)DOMAIN
L17 0 S (MYC-RP/GP OR MYC(W)RP/GP)(S)DOMAIN
L18 6 S MYC(W)RP(W)GP(S)DOMAIN
L19 13 S TRAB1(S)DOMAIN
L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)
L21 13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)

=> duplicate remove l8

DUPLICATE PREFERENCE IS 'AGRICOLA, CABA, BIOTECHNO'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L8

L22 1 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)

=> d l22 ti

L22 ANSWER 1 OF 1 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2007) on STN DUPLICATE 1
TI slender rice, a constitutive gibberellin response mutant, is caused by a
null mutation of the SLR1 gene, an ortholog of the height-regulating gene
GAI/RGA/RHT/D8.

=> d l22 kwic

L22 ANSWER 1 OF 1 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2007) on STN DUPLICATE 1
AB . . . indicate that the product of the SLR1 gene is an intermediate of
the GA signal transduction pathway. SLR1 maps to OsGAI in rice
and has significant homology with height-regulating genes, such as RHT-1Da
in wheat, D8 in maize, and GAI and. . . gene superfamily. DNA sequence
analysis revealed that the slr1-1 mutation is a single basepair deletion
of the nuclear localization signal domain, resulting in a
frameshift mutation that abolishes protein production. Furthermore,
introduction of a 6-kb genomic DNA fragment containing the wild-type. .

=> d l22 bib

L22 ANSWER 1 OF 1 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2007) on STN DUPLICATE 1

AN 2001:63381 AGRICOLA

DN IND23221940

TI slender rice, a constitutive gibberellin response mutant, is caused by a
 null mutation of the SLR1 gene, an ortholog of the height-regulating gene
 GAI/RGA/RHT/D8.

AU Ikeda, A.; Ueguchi-Tanaka, M.; Sonoda, Y.; Kitano, H.; Koshioka, M.;
 Futsuhara, Y.; Matsuoka, M.; Yamaguchi, J.

AV DNAL (QK725.P532)

SO The Plant cell, May 2001. Vol. 13, No. 5. p. 999-1010
 Publisher: [Rockville, MD : American Society of Plant Physiologists,
 c1989-
 CODEN: PLCEEW; ISSN: 1040-4651

NTE Includes references

CY Maryland; United States

DT Article

FS U.S. Imprints not USDA, Experiment or Extension

LA English

=> d his

(FILE 'HOME' ENTERED AT 14:47:34 ON 26 APR 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
 14:48:06 ON 26 APR 2007

L1 1524 S P300(S)DOMAIN

L2 1726 S CBP(S)DOMAIN

L3 145 S PCAF(S)DOMAIN

L4 91 S SRC1(S)DOMAIN

L5 19 S PVALF(S)DOMAIN

L6 1 S ERF-2(S)DOMAIN

L7 36 S (ERF-2 OR ERF2 OR ERF(W)2)(S)DOMAIN

L8 3 S OSGAI(S)DOMAIN

L9 13 S (HALF-1 OR HALF1 OR HALF(W)1)(S)DOMAIN

L10 370 S AP1(S)DOMAIN

L11 28 S (ARF-5 OR ARF5 OR ARF(W)5)(S)DOMAIN

L12 157 S (ARF-6 OR ARF6 OR ARF(W)6)(S)DOMAIN

L13 9 S (ARF-7 OR ARF7 OR ARF(W)7)(S)DOMAIN

L14 3 S (ARF-8 OR ARF8 OR ARF(W)8)(S)DOMAIN

L15 16 S CPRF1(S)DOMAIN

L16 3 S CPRF4(S)DOMAIN

L17 0 S (MYC-RP/GP OR MYC(W)RP/GP)(S)DOMAIN

L18 6 S MYC(W)RP(W)GP(S)DOMAIN

L19 13 S TRAB1(S)DOMAIN

L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)

L21 13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)

L22 1 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)

=> duplicate remove 19

DUPLICATE PREFERENCE IS 'MEDLINE, CABA, CAPLUS, BIOSIS, BIOTECHNO'
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
 PROCESSING COMPLETED FOR L9

L23 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)

=> d 123 1-7 ti

L23 ANSWER 1 OF 7 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI pH-induced intramolecular electron transfer between the iron-sulfur
 protein and cytochrome c.sub.1 in bovine cytochrome bc.sub.1 complex

L23 ANSWER 2 OF 7 MEDLINE on STN DUPLICATE 1

TI Sir3p domains involved in the initiation of telomeric silencing in *Saccharomyces cerevisiae*.

L23 ANSWER 3 OF 7 MEDLINE on STN DUPLICATE 2
 TI HALF-1, a bZIP-type protein, interacting with the wheat transcription factor HBP-1a contains a novel transcriptional activation domain.

L23 ANSWER 4 OF 7 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Identification of strong modifications in cation selectivity in an *Arabidopsis* inward rectifying potassium channel by mutant selection in yeast

L23 ANSWER 5 OF 7 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Domain-dependent protein folding is indicated by the intracellular kinetics of disulfide bond formation of human chorionic gonadotropin β subunit

L23 ANSWER 6 OF 7 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Phosphorylation-dependent binding of a synthetic MARCKS peptide to calmodulin

L23 ANSWER 7 OF 7 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Degradation of apolipoprotein II mRNA occurs via endonucleolytic cleavage at 5'-AAU-3'/5'-UAA-3' elements in single-stranded loop domains of the 3'-noncoding region

=> d 123 3 kwic

L23 ANSWER 3 OF 7 MEDLINE on STN DUPLICATE 2
 TI HALF-1, a bZIP-type protein, interacting with the wheat transcription factor HBP-1a contains a novel transcriptional activation domain.

AB . . . system and EMSA showed that HALF-1 and HBP-1a(17) interact with each other through their leucine-zipper regions. Dissection experiments showed that HALF-1 has at least one potential trans-activation domain which includes a nine amino acid motif conserved between several plant bZIP-type proteins. This motif, named GCB (GBF-conserved box; consensus, . . . gene, when fused to the GAL4 DNA-binding domain. The corresponding region of *Arabidopsis* GBF1 also stimulated transcription. However, the trans-activation domain of HALF-1 did not function in yeast. CONCLUSIONS: We identified a novel trans-activation domain which contains the GCB motif conserved among plant. . .

=> d 123 3 bib

L23 ANSWER 3 OF 7 MEDLINE on STN DUPLICATE 2
 AN 97233179 MEDLINE
 DN PubMed ID: 9078369
 TI HALF-1, a bZIP-type protein, interacting with the wheat transcription factor HBP-1a contains a novel transcriptional activation domain.

AU Okanami M; Meshi T; Tamai H; Iwabuchi M
 CS Department of Botany, Faculty of Science, Kyoto University, Japan.
 SO Genes to cells : devoted to molecular & cellular mechanisms, (1996 Jan) Vol. 1, No. 1, pp. 87-99.
 Journal code: 9607379. ISSN: 1356-9597.

CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 LA English
 FS Priority Journals

OS GENBANK-D64051
EM 199705
ED Entered STN: 23 May 1997
Last Updated on STN: 6 Feb 1998
Entered Medline: 15 May 1997

=> d his

(FILE 'HOME' ENTERED AT 14:47:34 ON 26 APR 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
14:48:06 ON 26 APR 2007

L1 1524 S P300(S)DOMAIN
L2 1726 S CBP(S)DOMAIN
L3 145 S PCAF(S)DOMAIN
L4 91 S SRC1(S)DOMAIN
L5 19 S PVALF(S)DOMAIN
L6 1 S ERF-2(S)DOMAIN
L7 36 S (ERF-2 OR ERF2 OR ERF(W)2)(S)DOMAIN
L8 3 S OSGAI(S)DOMAIN
L9 13 S (HALF-1 OR HALF1 OR HALF(W)1)(S)DOMAIN
L10 370 S AP1(S)DOMAIN
L11 28 S (ARF-5 OR ARF5 OR ARF(W)5)(S)DOMAIN
L12 157 S (ARF-6 OR ARF6 OR ARF(W)6)(S)DOMAIN
L13 9 S (ARF-7 OR ARF7 OR ARF(W)7)(S)DOMAIN
L14 3 S (ARF-8 OR ARF8 OR ARF(W)8)(S)DOMAIN
L15 16 S CPRF1(S)DOMAIN
L16 3 S CPRF4(S)DOMAIN
L17 0 S (MYC-RP/GP OR MYC(W)RP/GP)(S)DOMAIN
L18 6 S MYC(W)RP(W)GP(S)DOMAIN
L19 13 S TRAB1(S)DOMAIN
L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)
L21 13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
L22 1 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)
L23 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)

=> duplicate remove l11

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L11

L24 18 DUPLICATE REMOVE L11 (10 DUPLICATES REMOVED)

=> d l24 1-18 ti

L24 ANSWER 1 OF 18 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2007) on STN

TI Dual Specificity of the Interfacial Inhibitor Brefeldin A for Arf Proteins
and Sec7 Domains.

L24 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

TI Gene expression profiles for distinguishing acute myelogenous
leukemia-specific gene FLT3 length mutations from tyrosine kinase domain
mutations

L24 ANSWER 3 OF 18 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2007) on STN DUPLICATE 1

TI Functional genomic analysis of the AUXIN RESPONSE FACTOR gene family
members in Arabidopsis thaliana: unique and overlapping functions of ARF7
and ARF19.

L24 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Aux/IAA proteins contain a potent transcriptional repression domain

L24 ANSWER 5 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI AGAP1, an endosome-associated, phosphoinositide-dependent ADP-ribosylation factor GTPase-activating protein that affects actin cytoskeleton

L24 ANSWER 6 OF 18 CABA COPYRIGHT 2007 CABI on STN DUPLICATE 2
 TI The Arabidopsis BODENLOS gene encodes an auxin response protein inhibiting MONOPTEROS-mediated embryo patterning.

L24 ANSWER 7 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI ARF-GEP.sub.1.sub.0.sub.0, a guanine nucleotide-exchange protein for ADP-ribosylation factor 6

L24 ANSWER 8 OF 18 MEDLINE on STN DUPLICATE 3
 TI IAA17/AXR3: biochemical insight into an auxin mutant phenotype.

L24 ANSWER 9 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Similarities in function and gene structure of cytohesin-4 and cytohesin-1, guanine nucleotide-exchange proteins for ADP-ribosylation factors

L24 ANSWER 10 OF 18 MEDLINE on STN DUPLICATE 4
 TI Interaction of the PDZ domain of human PICK1 with class I ADP-ribosylation factors.

L24 ANSWER 11 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Brefeldin A inhibited activity of the Sec7 domain of p200, a mammalian guanine nucleotide-exchange protein for ADP-ribosylation factors

L24 ANSWER 12 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Identification of a new Pyk2 target protein with Arf-GAP activity

L24 ANSWER 13 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Phosphatidylinositol 4-phosphate 5-kinase α is a downstream effector of the small G protein ARF6 in membrane ruffle formation

L24 ANSWER 14 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI GBF1: A novel Golgi-associated BFA-resistant guanine nucleotide exchange factor that displays specificity for ADP-ribosylation factor 5

L24 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Guanine nucleotide exchange on ADP-ribosylation factors catalyzed by cytohesin-1 and its Sec7 domain

L24 ANSWER 16 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI ASAP1, a phospholipid-dependent Arf GTPase-activating protein that associates with and is phosphorylated by Src

L24 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Brefeldin A-inhibited guanine nucleotide-exchange activity of Sec7 domain from yeast Sec7 with yeast and mammalian ADP ribosylation factors

L24 ANSWER 18 OF 18 BIOTECHNO COPYRIGHT 2007 Elsevier Science B.V. on STN
 TI Characterization of a GTPase-activating protein that stimulates GTP hydrolysis by both ADP-ribosylation factor (ARF) and ARF-like proteins. Comparison to the ARD1 and GAP domain

=> d 124 4 kwic

L24 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
 IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (ARF5 (auxin response factor 5); Aux/IAA proteins contain a
 potent transcriptional repression domain)
 IT Protein-protein interaction
 (ARF5-IAA17; Aux/IAA proteins contain a potent
 transcriptional repression domain)

=> d 124 4 bib

L24 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:156124 CAPLUS
 DN 140:316080
 TI Aux/IAA proteins contain a potent transcriptional repression domain
 AU Tiwari, Shiv B.; Hagen, Gretchen; Guilfoyle, Tom J.
 CS Department of Biochemistry, University of Missouri, Columbia, MO, 65211,
 USA
 SO Plant Cell (2004), 16(2), 533-543
 CODEN: PLCEEW; ISSN: 1040-4651
 PB American Society of Plant Biologists
 DT Journal
 LA English
 RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:47:34 ON 26 APR 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
 14:48:06 ON 26 APR 2007

L1 1524 S P300(S)DOMAIN
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 L6 1 S ERF-2(S)DOMAIN
 L7 36 S (ERF-2 OR ERF2 OR ERF(W)2) (S)DOMAIN
 L8 3 S OSGAI(S)DOMAIN
 L9 13 S (HALF-1 OR HALF1 OR HALF(W)1) (S)DOMAIN
 L10 370 S AP1(S)DOMAIN
 L11 28 S (ARF-5 OR ARF5 OR ARF(W)5) (S)DOMAIN
 L12 157 S (ARF-6 OR ARF6 OR ARF(W)6) (S)DOMAIN
 L13 9 S (ARF-7 OR ARF7 OR ARF(W)7) (S)DOMAIN
 L14 3 S (ARF-8 OR ARF8 OR ARF(W)8) (S)DOMAIN
 L15 16 S CPRF1(S)DOMAIN
 L16 3 S CPRF4(S)DOMAIN
 L17 0 S (MYC-RP/GP OR MYC(W)RP/GP) (S)DOMAIN
 L18 6 S MYC(W)RP(W)GP(S)DOMAIN
 L19 13 S TRAB1(S)DOMAIN
 L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)
 L21 13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
 L22 1 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)
 L23 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)
 L24 18 DUPLICATE REMOVE L11 (10 DUPLICATES REMOVED)

=> duplicate remove l13

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L13

L25 3 DUPLICATE REMOVE L13 (6 DUPLICATES REMOVED)

=> d 125 1-3 ti

- L25 ANSWER 1 OF 3 CABA COPYRIGHT 2007 CABI on STN
 TI Phototropin and light-signaling in phototropism
 Special issue: Cell signalling and gene regulation..
- L25 ANSWER 2 OF 3 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2007) on STN DUPLICATE 1
 TI Functional genomic analysis of the AUXIN RESPONSE FACTOR gene family
 members in Arabidopsis thaliana: unique and overlapping functions of ARF7
 and ARF19.
- L25 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 2
 TI MASSUGU2 encodes Aux/IAA19, an auxin-regulated protein that functions
 together with the transcriptional activator NPH4/ARF7 to regulate
 differential growth responses of hypocotyl and formation of lateral roots
 in Arabidopsis thaliana.

=> d 125 1-3 kwic

- L25 ANSWER 1 OF 3 CABA COPYRIGHT 2007 CABI on STN
 AB . . . a flavin mononucleotide (FMN). Recently, it was found that this
 kinase is inhibited by the binding of the LOV2 (light-oxygen-voltage2)
 domain in the dark but that its activity is increased in the light
 by the release of the LOV2 domain. Phototropin-associated
 proteins have been identified, although the proteins that are
 phosphorylated by phototropin are still unknown. The asymmetrical auxin
 distribution. . . by a difference in auxin-regulated gene expression
 between the shaded and illuminated sides of plant organs.
 Transcription-related factors, such as NPH4/ARF7, MSG2/IAA19 and
 SCFTIR1, play key roles in this process. In this review, we focus on the
 photoreceptor and the early. . .
- L25 ANSWER 2 OF 3 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2007) on STN DUPLICATE 1
 AB . . . Most of the lines fail to show an obvious growth phenotype except
 of the previously identified arf2/hss, arf3/ett, arf5/mp, and arf7
 /nph4 mutants, suggesting that there are functional redundancies among the
 ARF proteins. Subsequently, we generated double mutants. arf7
 arf19 has a strong auxin-related phenotype not observed in the
 arf7 and arf19 single mutants, including severely impaired lateral
 root formation and abnormal gravitropism in both hypocotyl and root.
 Global gene expression analysis revealed that auxin-induced gene
 expression is severely impaired in the arf7 single and
 arf7 arf19 double mutants. For example, the expression of several
 genes, such as those encoding members of LATERAL ORGAN BOUNDARIES
 domain proteins and AUXIN-REGULATED GENE INVOLVED IN ORGAN SIZE,
 are disrupted in the double mutant. The data suggest that the ARF7
 and ARF19 proteins play essential roles in auxin-mediated plant
 development by regulating both unique and partially overlapping sets of
 target. . .
- L25 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 2
 AB . . . Interestingly, auxin inducibility of MSG2/IAA19 gene expression
 is reduced by 65% in nph4/arf7. Moreover, MSG2/IAA19 protein binds to the
 C-terminal domain of NPH4/ARF7 in a Saccharomyces
 cerevisiae (yeast) two-hybrid assay and to the whole latter protein in
 vitro by pull-down assay. These results. . .

=> d 125 2-3 bib

L25 ANSWER 2 OF 3 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2007) on STN DUPLICATE 1
AN 2005:19520 AGRICOLA
DN IND43674807
TI Functional genomic analysis of the AUXIN RESPONSE FACTOR gene family
members in Arabidopsis thaliana: unique and overlapping functions of ARF7
and ARF19.
AU Okushima, Y.; Overvoorde, P.J.; Arima, K.; Alonso, J.M.; Chan, A.; Chang,
C.; Ecker, J.R.; Hughes, B.; Lui, A.; Nguyen, D.
AV DNAL (QK725.P532)
SO Plant cell, 2005 Feb. Vol. 17, no. 2 p. 444-463
ISSN: 1040-4651
NTE Includes references
DT Article
FS Other US
LA English

L25 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 2
AN 2004084881 MEDLINE
DN PubMed ID: 14729917
TI MASSUGU2 encodes Aux/IAA19, an auxin-regulated protein that functions
together with the transcriptional activator NPH4/ARF7 to regulate
differential growth responses of hypocotyl and formation of lateral roots
in Arabidopsis thaliana.
AU Tatematsu Kiyoshi; Kumagai Satoshi; Muto Hideki; Sato Atsuko; Watahiki
Masaaki K; Harper Renee M; Liscum Emmanuel; Yamamoto Kotaro T
CS Division of Biological Sciences, Graduate School of Environmental Earth
Science, Hokkaido University, Sapporo 060-0810, Japan.
SO The Plant cell, (2004 Feb) Vol. 16, No. 2, pp. 379-93. Electronic
Publication: 2004-01-16.
Journal code: 9208688. ISSN: 1040-4651.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
(RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)
LA English
FS Priority Journals
EM 200406
ED Entered STN: 21 Feb 2004
Last Updated on STN: 25 Jun 2004
Entered Medline: 23 Jun 2004

=> d his

(FILE 'HOME' ENTERED AT 14:47:34 ON 26 APR 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
14:48:06 ON 26 APR 2007

L1 1524 S P300(S)DOMAIN
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L3 145 S PCAF(S)DOMAIN
L4 91 S SRC1(S)DOMAIN
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L13 9 S (ARF-7 OR ARF7 OR ARF(W)7)(S)DOMAIN
L14 3 S (ARF-8 OR ARF8 OR ARF(W)8)(S)DOMAIN

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L15      16 S CPRF1(S)DOMAIN
L16      3 S CPRF4(S)DOMAIN
L17      0 S (MYC-RP/GP OR MYC(W)RP/GP) (S)DOMAIN
L18      6 S MYC(W)RP(W)GP(S)DOMAIN
L19      13 S TRAB1(S)DOMAIN
L20      5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)
L21      13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
L22      1 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)
L23      7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)
L24      18 DUPLICATE REMOVE L11 (10 DUPLICATES REMOVED)
L25      3 DUPLICATE REMOVE L13 (6 DUPLICATES REMOVED)

```

=> duplicate remove l14

DUPLICATE PREFERENCE IS 'CABA, CAPLUS, BIOSIS'
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
 PROCESSING COMPLETED FOR L14

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L26      1 DUPLICATE REMOVE L14 (2 DUPLICATES REMOVED)

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=> d l26 kwic

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L26 ANSWER 1 OF 1 CABA COPYRIGHT 2007 CABI on STN      DUPLICATE 1
AB . . . We address here the specificity of BIG2 for different Arabidopsis
ARF proteins. The in vitro effect of the catalytic Sec7 domain
of BIG2 on the guanine nucleotide exchange rate of five ARF and ARL
proteins was measured using real time fluorescence spectroscopy. The Sec7
domain catalyzed nucleotide exchange on ARF1, but had essentially
no effect on the exchange rate of ARF8, ARF9, ARL1, and ARL8a.
In Western blots with an anti-BIG2 polyclonal antibody, a BIG2 fraction
was detected in membranes, especially those deriving from the Golgi
apparatus. The activity of the BIG2 Sec7 domain was unaffected
by the Sec7 inhibitor brefeldin A, suggesting that BIG2 is a
BFA-insensitive GEF for ARF1 or a close. . .

```

=> duplicate remove l15

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
 PROCESSING COMPLETED FOR L15

```

L27      4 DUPLICATE REMOVE L15 (12 DUPLICATES REMOVED)

```

=> d l27 1-4 ti

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L27 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Isolation and characterization of four novel parsley proteins that
interact with the transcriptional regulators CPRF1 and CPRF2

```

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L27 ANSWER 2 OF 4 MEDLINE on STN      DUPLICATE 1
TI Transactivation properties of parsley proline-rich bZIP transcription
factors.

```

```

L27 ANSWER 3 OF 4 MEDLINE on STN      DUPLICATE 2
TI The activation domain of the maize transcription factor Opaque-2 resides
in a single acidic region.

```

```

L27 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2007) on STN      DUPLICATE 3
TI The transcriptional regulator CPRF1: expression analysis and gene
structure.

```

=> d l27 1-4 kwic

```

L27 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

```

- IT Protein motifs
(bZIP domain; sequence, DNA-binding and transactivation activities, and nuclear localization of three novel parsley proteins (CPRF5-CPRF) that interact with transcriptional regulators CPRF1 and CPRF2)
- L27 ANSWER 2 OF 4 MEDLINE on STN DUPLICATE 1
AB . . . The proline-rich domains of CPRF1 and CPRF4 activate transcription, indicating that CPRF1 and CPRF4 have transactivating properties. Over-expression of the CPRF1 bZIP domain caused a reduction of LRUHCS-mediated light inducibility, and point mutations throughout ACECHS affected both responsiveness to UV-containing white light and transactivation by CPRF1:VP16. The data suggest that a CPRF1-containing bZIP heterodimer interacts with ACECHS in vivo. We discuss regulatory steps in light-induced CHS. . .
- L27 ANSWER 3 OF 4 MEDLINE on STN DUPLICATE 2
AB . . . activation domain, located near the N-terminus of the protein (amino acids 41-91). The ability of a shorter part of this domain (amino acids 39-82) to confer transactivation was also demonstrated in domain swapping experiments, using fusions of the O2 polypeptide sequence to the DNA-binding domain of the parsley (*Petroselinum crispum*) transcription factor CPRF1.
- L27 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2007) on STN DUPLICATE 3
AB Many eukaryotic DNA-binding proteins share a conserved amino acid sequence known as the basic region leucine zipper (bZIP) domain. bZIP proteins recognise DNA, upon dimerization, in a sequence-specific manner. The Common Plant Regulatory Factor 1 (CPRF1) is a bZIP transcription factor from parsley (*Petroselinum crispum*), which recognises defined elements containing ACGT cores. CPRF1 genomic DNA was cloned and the gene was sequenced. Analysis of the sequence data revealed the existence of 12 exons and 11 introns within a stretch of about 9 kb. A second RNA species hybridising to CPRF1 probes was identified as an alternatively spliced, additional CPRF1 transcript containing intron 8. This polyadenylated RNA species showed accumulation characteristics very similar to those of the CPRF1 mRNA. CPRF1 specifically binds an ACGT-containing element which is located within the composite regulatory unit that is necessary and sufficient for light activation of the parsley chalcone synthase (CHS) minimal promoter. Expression studies at the mRNA level demonstrated that CPRF1 mRNA is present in all organs of light-grown plants in which CHS mRNA expression is detectable, and light-dependent CHS mRNA accumulation was shown to be blocked by cycloheximide. Therefore, translation of a protein factor, possibly CPRF1, may be a prerequisite for CHS promoter activation.

=> d 127 1-4 bib

- L27 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:630274 CAPLUS
DN 136:228465
TI Isolation and characterization of four novel parsley proteins that interact with the transcriptional regulators CPRF1 and CPRF2
AU Rugner, A.; Frohn Meyer, H.; Nake, C.; Wellmer, F.; Kircher, S.; Schafer, E.; Harter, K.
CS Institut für Biologie II/Botanik, Universität Freiburg, Freiburg, 79104, Germany
SO Molecular Genetics and Genomics (2001), 265(6), 964-976
CODEN: MGGOAA; ISSN: 1617-4615
PB Springer-Verlag

DT Journal

LA English

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 4 MEDLINE on STN DUPLICATE 1
AN 2000252853 MEDLINE
DN PubMed ID: 10792815
TI Transactivation properties of parsley proline-rich bZIP transcription factors.
AU Sprenger-Haussels M; Weisshaar B
CS Max-Planck-Institut fur Zuchtungsforschung, Abteilung Biochemie, Carl-von-Linne-Weg 10, D-50829 Koln, Germany.
SO The Plant journal : for cell and molecular biology, (2000 Apr) Vol. 22, No. 1, pp. 1-8.
Journal code: 9207397. ISSN: 0960-7412.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
LA English
FS Priority Journals
EM 200006
ED Entered STN: 6 Jul 2000
Last Updated on STN: 6 Jul 2000
Entered Medline: 26 Jun 2000

L27 ANSWER 3 OF 4 MEDLINE on STN DUPLICATE 2
AN 97169286 MEDLINE
DN PubMed ID: 9016625
TI The activation domain of the maize transcription factor Opaque-2 resides in a single acidic region.
AU Schmitz D; Lohmer S; Salamini F; Thompson R D
CS Max-Planck-Institut fur Zuchtungsforschung, Koln, Germany.
SO Nucleic acids research, (1997 Feb 15) Vol. 25, No. 4, pp. 756-63.
Journal code: 0411011. ISSN: 0305-1048.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
LA English
FS Priority Journals
EM 199703
ED Entered STN: 27 Mar 1997
Last Updated on STN: 19 Oct 2002
Entered Medline: 17 Mar 1997

L27 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2007) on STN DUPLICATE 3
AN 97:32973 AGRICOLA
DN IND20563865
TI The transcriptional regulator CPRF1: expression analysis and gene structure.
AU Feldbrugge, M.; Hahlbrock, K.; Weisshaar, B.
CS Max-Planck-Institut fur Zuchtungsforschung, Koln, Germany.
AV DNAL (442.8 Z34)
SO Molecular & general genetics : MGG, July 26, 1996. Vol. 251, No. 6. p. 619-627
Publisher: Berlin, Germany : Springer Produktions-Gesellschaft.
CODEN: MGGEAE; ISSN: 0026-8925
NTE Includes references
CY Germany
DT Article
FS Non-U.S. Imprint other than FAO
LA English

=> d his

(FILE 'HOME' ENTERED AT 14:47:34 ON 26 APR 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
14:48:06 ON 26 APR 2007

L1 1524 S P300(S)DOMAIN
L2 1726 S CBP(S)DOMAIN
L3 145 S PCAF(S)DOMAIN
L4 91 S SRC1(S)DOMAIN
L5 19 S PVALF(S)DOMAIN
L6 1 S ERF-2(S)DOMAIN
L7 36 S (ERF-2 OR ERF2 OR ERF(W)2)(S)DOMAIN
L8 3 S OSGAI(S)DOMAIN
L9 13 S (HALF-1 OR HALF1 OR HALF(W)1)(S)DOMAIN
L10 370 S AP1(S)DOMAIN
L11 28 S (ARF-5 OR ARF5 OR ARF(W)5)(S)DOMAIN
L12 157 S (ARF-6 OR ARF6 OR ARF(W)6)(S)DOMAIN
L13 9 S (ARF-7 OR ARF7 OR ARF(W)7)(S)DOMAIN
L14 3 S (ARF-8 OR ARF8 OR ARF(W)8)(S)DOMAIN
L15 16 S CPRF1(S)DOMAIN
L16 3 S CPRF4(S)DOMAIN
L17 0 S (MYC-RP/GP OR MYC(W)RP/GP)(S)DOMAIN
L18 6 S MYC(W)RP(W)GP(S)DOMAIN
L19 13 S TRAB1(S)DOMAIN
L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)
L21 13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
L22 1 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)
L23 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)
L24 18 DUPLICATE REMOVE L11 (10 DUPLICATES REMOVED)
L25 3 DUPLICATE REMOVE L13 (6 DUPLICATES REMOVED)
L26 1 DUPLICATE REMOVE L14 (2 DUPLICATES REMOVED)
L27 4 DUPLICATE REMOVE L15 (12 DUPLICATES REMOVED)

=> duplicate remove l16

DUPLICATE PREFERENCE IS 'AGRICOLA, CABA, BIOTECHNO'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L16

L28 1 DUPLICATE REMOVE L16 (2 DUPLICATES REMOVED)

=> d l28 kwic

L28 ANSWER 1 OF 1 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2007) on STN DUPLICATE 1

AB . . . element ACE(CHS). ACE(CHS) is bound by the parsley basic
region/leucine zipper (bZIP) factors CPRF1 and 4. Factors containing the
bZIP domain exist in animals, plants and yeast, and recognize
DNA sequence-specifically after formation of homo- or heterodimers. To
determine the potential. . . activity, we investigated the functions of
distinct CPRF domains in a homologous co-transfection system. The
proline-rich domains of CPRF1 and CPRF4 activate transcription,
indicating that CPRF1 and CPRF4 have transactivating properties.
Over-expression of the CPRF1 bZIP domain caused a reduction of
LRU(CHS)-mediated light inducibility, and point mutations throughout
ACE(CHS) affected both responsiveness to UV-containing white light and. .

=> d l28 bib

L28 ANSWER 1 OF 1 AGRICOLA Compiled and distributed by the National

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(2007) on STN

DUPLICATE 1

AN 2001:57322 AGRICOLA
DN IND23216083
TI Transactivation properties of parsley proline-rich bZIP transcription factors.
AU Sprenger-Haussels, M.; Weisshaar, B.
AV DNAL (QK710.P68)
SO The Plant journal : for cell and molecular biology, Apr 2000. Vol. 22, No. 1. p. 1-8
Publisher: Oxford : Blackwell Sciences Ltd.
ISSN: 0960-7412
NTE Includes references
CY England; United Kingdom
DT Article
FS Non-U.S. Imprint other than FAO
LA English

=> duplicate remove l18

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L18

L29 1 DUPLICATE REMOVE L18 (5 DUPLICATES REMOVED)

=> d l29 kwic

L29 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1
AB . . . activity on the GAL-1 promoter from yeast and the promoter of dihydroflavonol 4-reductase (DFR) gene from *P. frutescens*. A transactivation domain of MYC-RP/GP and Delila could be located in the region between the 193rd and the 420th amino acid of MYC-RP/GP proteins. Our data indicate that this Myc-like gene presumably functions in the regulation of anthocyanin biosynthesis similarly in different tissues. . .

=> d l29 bib

L29 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1
AN 2000023722 MEDLINE
DN PubMed ID: 10561066
TI A constitutively expressed Myc-like gene involved in anthocyanin biosynthesis from *Perilla frutescens*: molecular characterization, heterologous expression in transgenic plants and transactivation in yeast cells.
AU Gong Z Z; Yamagishi E; Yamazaki M; Saito K
CS Faculty of Pharmaceutical Sciences, Laboratory of Molecular Biology and Biotechnology, Research Center of Medicinal Resources, Chiba University, Japan.
SO Plant molecular biology, (1999 Sep) Vol. 41, No. 1, pp. 33-44.
Journal code: 9106343. ISSN: 0167-4412.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
LA English
FS Priority Journals
OS GENBANK-AB024050; GENBANK-AB024051; GENBANK-AB024052
EM 199912
ED Entered STN: 13 Jan 2000
Last Updated on STN: 18 Dec 2002
Entered Medline: 7 Dec 1999

=> duplicate remove l19

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L19

L30 3 DUPLICATE REMOVE L19 (10 DUPLICATES REMOVED)

=> d l30 1-3 kwic

L30 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1

AB The rice basic domain/Leu zipper factor TRAB1 binds to
abscisic acid (ABA) response elements and mediates ABA signals to activate
transcription. We show that TRAB1 is phosphorylated. . . gels. We had
shown previously that a chimeric promoter containing GAL4 binding sites
became ABA inducible when a GAL4 binding domain-TRAB1
fusion protein was present. This expression system allowed us to assay
the ABA response function of TRAB1. Using this system, . . .

L30 ANSWER 2 OF 3 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

IT . . . Concepts

Molecular Genetics (Biochemistry and Molecular Biophysics)

IT Chemicals & Biochemicals

ABA [abscisic acid]; ABA responsive elements; GAL4 binding site;

TRAB1: bZIP domain, transcription factor

L30 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 2

AB . . . both VP1 and ABRES. Transcription from a chimeric promoter with
GAL4-binding sites was ABA-inducible if cells expressed a GAL4 DNA-binding
domain::TRAB1 fusion protein. Results indicate that
TRAB1 is a true trans-acting factor involved in ABA-regulated
transcription and reveal a molecular mechanism. . .

=> d l30 1-3 bib

L30 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1

AN 2002707160 MEDLINE

DN PubMed ID: 12468735

TI Absciscic acid-induced transcription is mediated by phosphorylation of an
abscisic acid response element binding factor, TRAB1.

AU Kagaya Yasuaki; Hobo Tokunori; Murata Michiharu; Ban Atushi; Hattori
Tsukaho

CS Center for Molecular Biology and Genetics, Mie University, 1515
Kamihama-cho, Tsu 514-8507, Japan.

SO The Plant cell, (2002 Dec) Vol. 14, No. 12, pp. 3177-89.

Journal code: 9208688. ISSN: 1040-4651.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)

LA English

FS Priority Journals

EM 200303

ED Entered STN: 17 Dec 2002

Last Updated on STN: 19 Mar 2003

Entered Medline: 18 Mar 2003

L30 ANSWER 2 OF 3 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

AN 2001:257345 BIOSIS

DN PREV200100257345

TI ABA signal-induced transcription via a bZIP factor TRAB1.

AU Kagaya, Yasuaki [Reprint author]; Hobo, Tokunori; Murata, Michiharu
[Reprint author]; Hattori, Tsukaho [Reprint author]

CS Center for Mol. and Genet., Mie Univ., Tsu, 514-8507, Japan

SO Plant and Cell Physiology, (2001) Vol. 42, No. Supplement, pp. s85. print.
Meeting Info.: Symposia and Workshops of the 2001 Annual Meeting of the
Japanese Society of Plant Physiologists. Fukuoka, Japan. March 23-26,

2001. Japanese Society of Plant Physiologists.
CODEN: PCPHA5. ISSN: 0032-0781.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 30 May 2001
Last Updated on STN: 19 Feb 2002

L30 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 2
AN 2000079656 MEDLINE
DN PubMed ID: 10611387
TI A bZIP factor, TRAB1, interacts with VP1 and mediates abscisic acid-induced transcription.
AU Hobo T; Kowyama Y; Hattori T
CS Center for Molecular Biology, Mie University, 1515 Kamihama-cho, Tsu 514-8507, Japan.
SO Proceedings of the National Academy of Sciences of the United States of America, (1999 Dec 21) Vol. 96, No. 26, pp. 15348-53.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT (COMPARATIVE STUDY)
Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
LA English
FS Priority Journals; Space Life Sciences
OS GENBANK-AB023288
EM 200001.
ED Entered STN: 4 Feb 2000
Last Updated on STN: 4 Feb 2000
Entered Medline: 27 Jan 2000

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(FILE 'HOME' ENTERED AT 14:47:34 ON 26 APR 2007)

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L4 91 S SRC1(S)DOMAIN
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L6 1 S ERF-2(S)DOMAIN
L7 36 S (ERF-2 OR ERF2 OR ERF(W)2) (S)DOMAIN
L8 3 S OSGAI(S)DOMAIN
L9 13 S (HALF-1 OR HALF1 OR HALF(W)1) (S)DOMAIN
L10 370 S AP1(S)DOMAIN
L11 28 S (ARF-5 OR ARF5 OR ARF(W)5) (S)DOMAIN
L12 157 S (ARF-6 OR ARF6 OR ARF(W)6) (S)DOMAIN
L13 9 S (ARF-7 OR ARF7 OR ARF(W)7) (S)DOMAIN
L14 3 S (ARF-8 OR ARF8 OR ARF(W)8) (S)DOMAIN
L15 16 S CPRF1(S)DOMAIN
L16 3 S CPRF4(S)DOMAIN
L17 0 S (MYC-RP/GP OR MYC(W)RP/GP) (S)DOMAIN
L18 6 S MYC(W)RP(W)GP(S)DOMAIN
L19 13 S TRAB1(S)DOMAIN
L20 5 DUPLICATE REMOVE L5 (14 DUPLICATES REMOVED)
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L23 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)
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L26 1 DUPLICATE REMOVE L14 (2 DUPLICATES REMOVED)
L27 4 DUPLICATE REMOVE L15 (12 DUPLICATES REMOVED)

L28 1 DUPLICATE REMOVE L16 (2 DUPLICATES REMOVED)
L29 1 DUPLICATE REMOVE L18 (5 DUPLICATES REMOVED)
L30 3 DUPLICATE REMOVE L19 (10 DUPLICATES REMOVED)

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SINCE FILE	TOTAL
ENTRY	SESSION
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STN INTERNATIONAL LOGOFF AT 15:10:14 ON 26 APR 2007